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**Human neural crest stem cells derived from human pluripotent stem cells.**

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**Public Summary:**

The neural crest cells give rise to neurons and glia in the peripheral nervous system, which is an important component of the nervous system. Here we developed a scalable process of inducing neural crest stem cells (NCSCs) from hESCs/iPSCs by a combination of growth factors in medium conditioned on stromal cells, and showed that NCSCs could be purified by p75 using FACS. In vitro-expanded NCSCs were able to differentiate into neurons and glia (Schwann cells) of the peripheral nervous system (PNS) as well as mesenchymal derivatives.

**Scientific Abstract:**

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